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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO.

: 6,748,151 B1

DATED

: June 8, 2004

INVENTOR(S) : Watanabe et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 3,

Line 11, begin new paragraph after "(1550 nm+-50 nm)." and before "In still".

Column 6,

Line 46, delete "a" in "attentuation a becomes" and replace with -- α --.

Column 10.

Line 29, "signals" should read -- signal --.

Please insert the following as claims 10, 11 and 12:

- 23. An optical attenuator in the form of a single mode optical fiber for receiving optical signals having wavelengths within a predetermined range of wavelengths, attenuating a received optical signal and outputting the attenuated optical signal, said optical attenuator comprising a core containing a dopant which attenuates the received optical signal more when its wavelength is shorter within the predetermined range of wavelengths, said dopant being contained only in a dopant area limited to a centermost portion of said core, said core comprising said centermost portion and a peripheral portion contiguous with said centermost portion and free of dopant, said core having a refractive index at said centermost portion greater than that of said peripheral portion, said optical fiber having a mode field for single mode transmission of the optical signal inclusive of said centermost and peripheral portions of said core.
- 24. The optical attenuator as claimed in claim 23, wherein the refractive index has a profile selected from the group consisting of a graded-index type, parabolic shapes, triangular wave shapes, square wave shapes and trapezoidal wave shapes.
- 25. The optical attenuator as claimed in claim 23, further comprising cladding on and surrounding said core, said cladding not containing dopant. -

Signed and Sealed this

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Twenty-third Day of November, 2004

JON W. DUDAS

Director of the United States Patent and Trademark Office